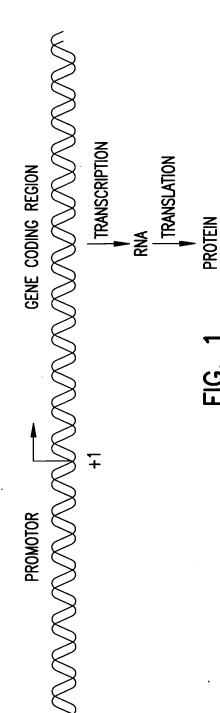
DOVETEDE OVEROI

STRUCTURE OF A GENE

1/6



- ANO

ACTIVE GENE

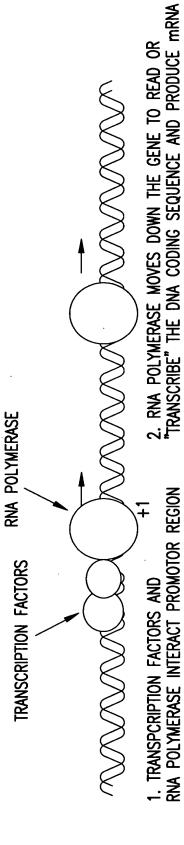


FIG. 2

HOD OF REGULATING TRANSCRIPTION IN NVENTORS NAME: Beverly M. Emerson SERIAL NO.: 09/781,592 TITLE:

INACTIVE GENE (IN CHROMATIN)

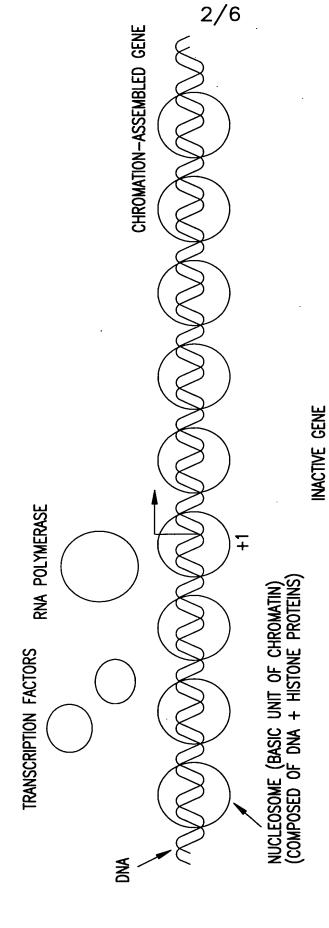


FIG.

TO ACTIVATE GENE

TRANSCRIPTION FACTORS AND RNA POLYMERASE TO DNA; PROTEINS CANNOT INTERACT WITH PROMOTER REGION

NUCLEOSOMES BLOCK ACCESSIBILITY OF

HUNGISCE ENTEME

ACTIVE GENE (IN CHROMATIN)

REMODELING COMPLEX

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CHROMATION-ASSEMBLED GENE

TRANSCRIPTION FACTORS, RNA POLYMERASE

ACTIVE GENE

REMODELING COMPLEX (SWI/SNF, ETC.) IS TARGETED BY TRANSCRIPTION FACTOR AND "LOOSENS" NÚCLEOSOMAL STRUCTURE TO FACILITATE INTERACTION OF TRANSCRIPTION FACTOR AND RNA POLYMERASE WITH PROMOTER DNA WHICH ACTIVATES THE GENE

FIG.

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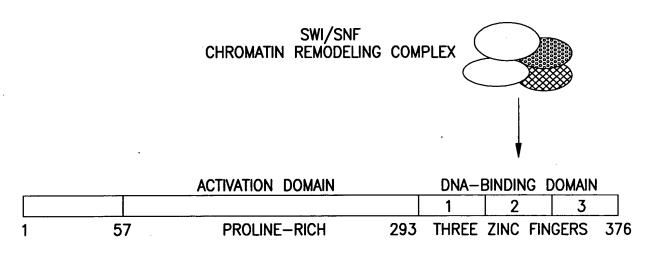


FIG. 5

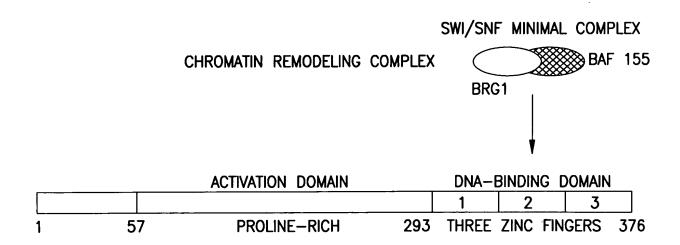


FIG. 6

D9781598 "O7E4O1

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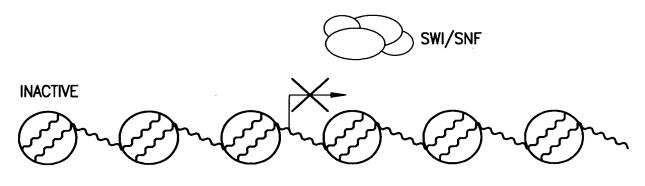


FIG. 7A

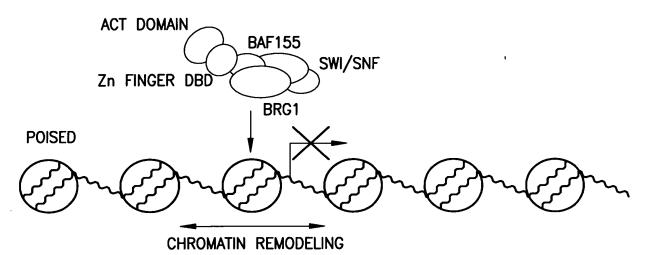


FIG. 7B

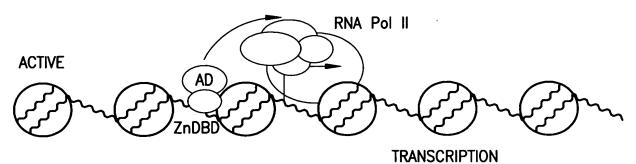


FIG. 7C

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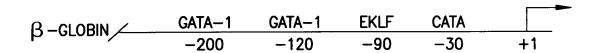


FIG. 8

FIG. 9

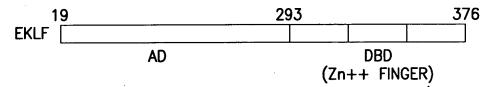


FIG. 10